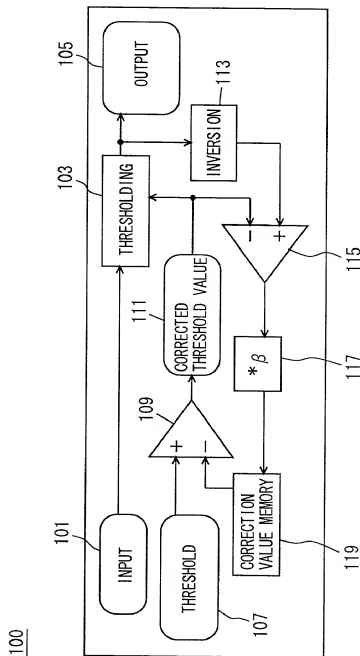


FIG. 1



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F I G. 2

		○	32	8
2	16	32	16	4
1	4	8	2	1

FIG. 3

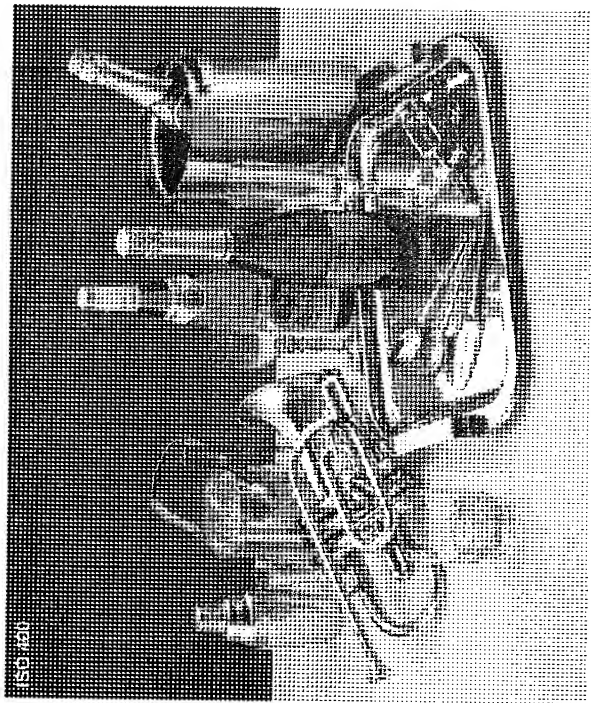


FIG. 4



FIG. 5

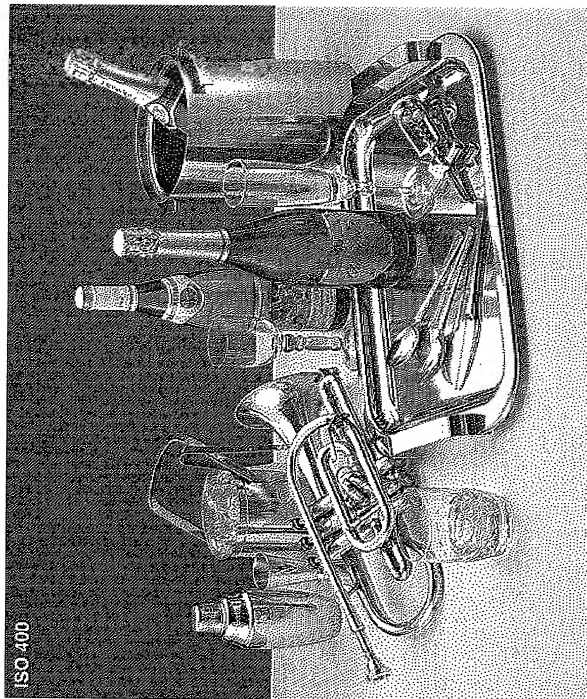


FIG. 6



FIG. 7



FIG. 8





FIG. 9

100

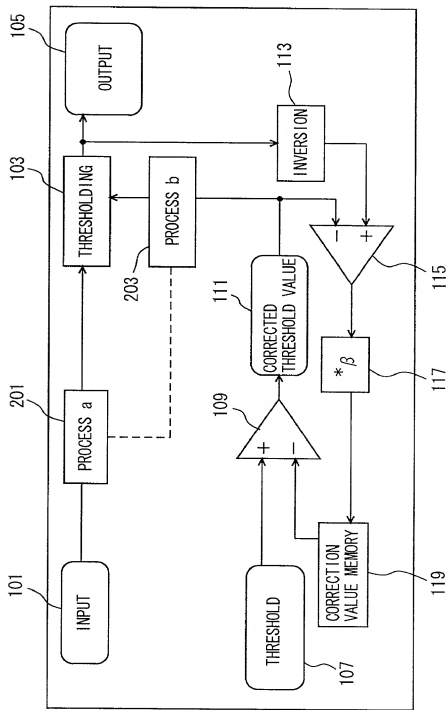


FIG. 10

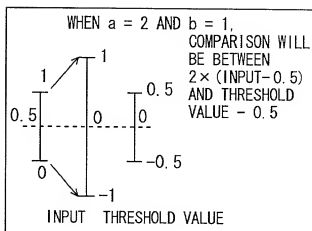


FIG. 11

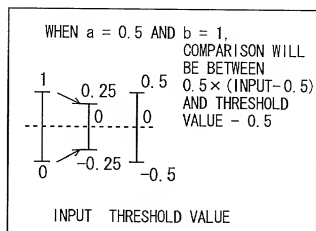


FIG. 12

EXAMPLES OF RELATION BETWEEN THE RATIO OF SET COEFFICIENTS  
AND DEGREE OF EDGE ENHANCEMENT

DEGREE OF EDGE ENHANCEMENT	RELATION BETWEEN COEFFICIENTS a AND b
STRONGER	$a > b$
↑	
COMPARABLE TO COMMON THRESHOLD VALUE DIFFUSION	$a = b$
↓	
WEAKER	$a < b$

FIG. 13

TABLE OF CONDITIONS FOR COEFFICIENT SETTING

	COEFFICIENT a	COEFFICIENT b	$a / b$	$\beta$
EXAMPLE 1	0.1	1	0.1	0.08
EXAMPLE 2	1	1	1	0.5
EXAMPLE 3	2	1	2	0.68

FIG. 17

	COEFFICIENT a	COEFFICIENT b	$a / b$
EXAMPLE 1'	1	10	0.1
EXAMPLE 2'	1	1	1
EXAMPLE 3'	1	0.5	2

FIG. 14

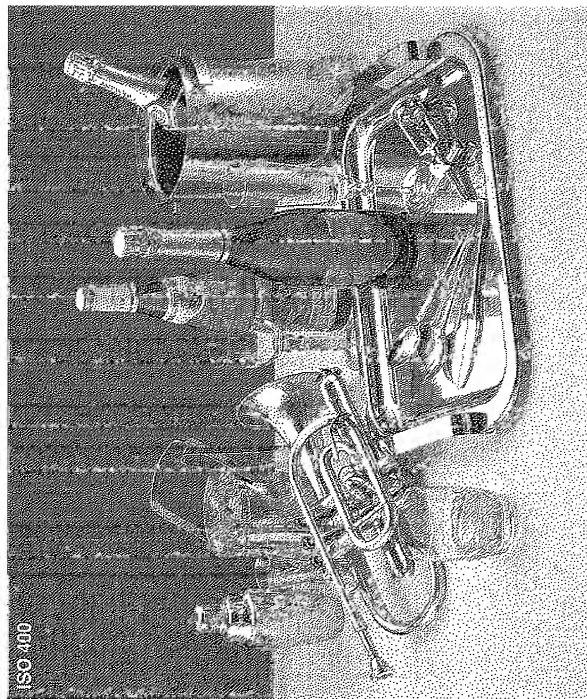


FIG. 15



FIG. 16



FIG. 18

	COEFFICIENT a	COEFFICIENT b	a / b
EXAMPLE 1"	0.5	5	0.1
EXAMPLE 2"	2	2	1
EXAMPLE 3"	4	2	2

FIG. 19

WHEN  $a = 2$ ,  $b = 1$

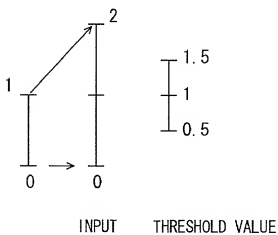


FIG. 20

WHEN  $a = 3$ ,  $b = 1$

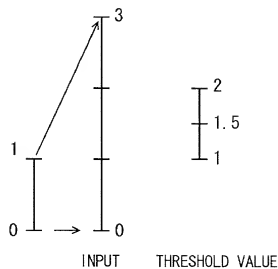


FIG. 21

WHEN  $a = 0.5$ ,  $b = 1$

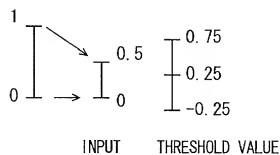




FIG. 2

100

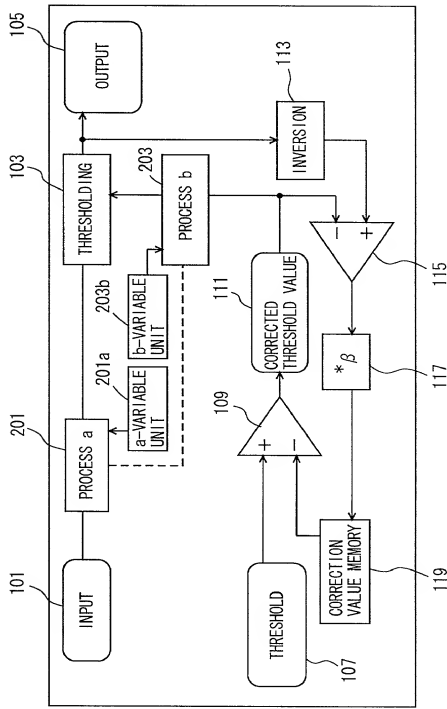


FIG. 23

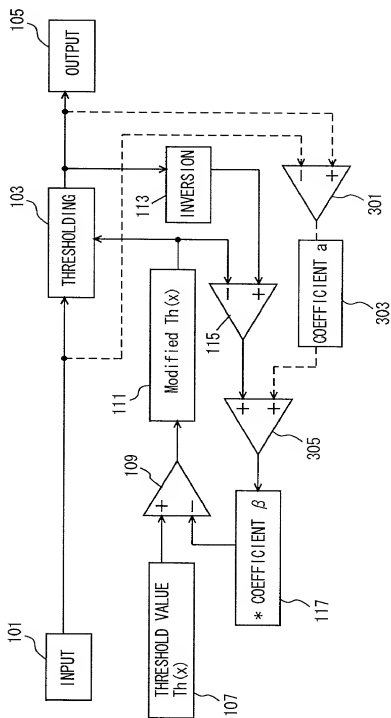


FIG. 24

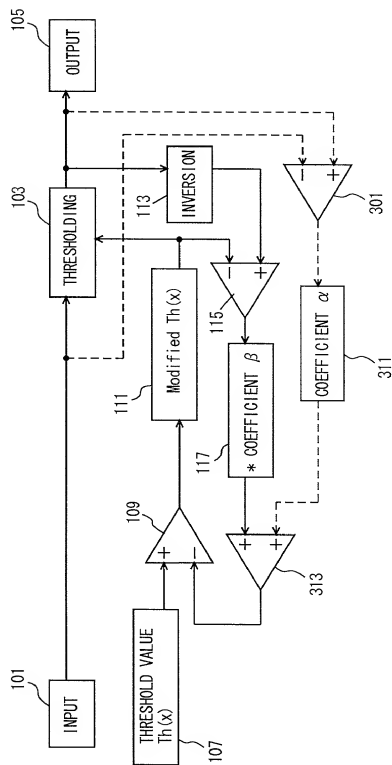


FIG. 25

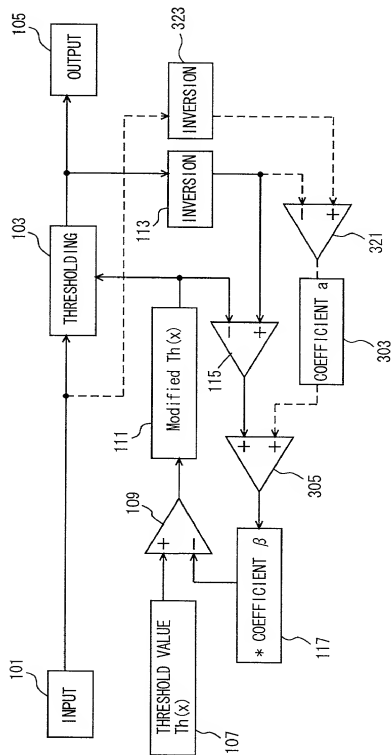


FIG. 26

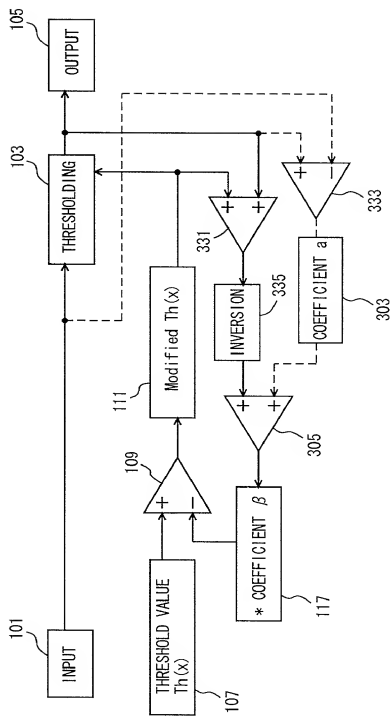


FIG. 27

EXAMPLES OF RELATION BETWEEN THE VALUE OF SET COEFFICIENTS  
AND DEGREE OF EDGE ENHANCEMENT

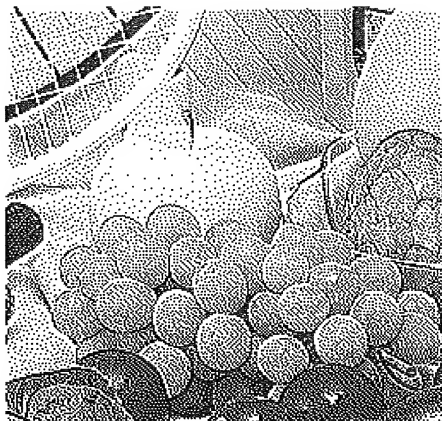
DEGREE OF EDGE ENHANCEMENT	COEFFICIENTS $a$
STRONGER	$a > 0$
↑	
COMPARABLE TO COMMON THRESHOLD VALUE DIFFUSION	$a = 0$
↓	
WEAKER	$a < 0$

FIG. 28

TABLE OF SET COEFFICIENT VALUES

	COEFFICIENT $a$	
RESULT 1	0.5	STRONG EDGE ENHANCEMENT
RESULT 2	0.2	↑
RESULT 3	0	STANDARD THRESHOLD VALUE DIFFUSION
RESULT 4	-1	↓
RESULT 5	-5	WEAK EDGE ENHANCEMENT
ERROR DIFFUSION	—	STANDARD ERROR VALUE DIFFUSION

FIG. 29



RESULT 1

FIG. 30



RESULT 2

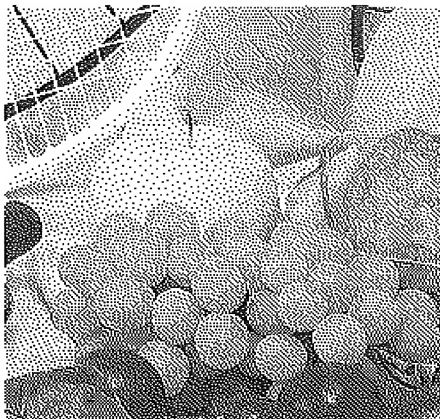


FIG. 31



RESULT 3

FIG. 32



RESULT 4

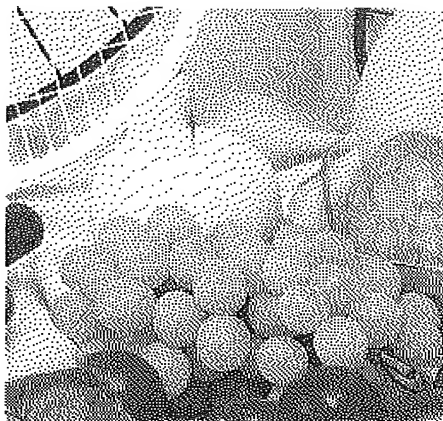
FIG. 33



RESULT 5

09874125-060601

FIG. 34



ERROR DIFFUSION

109090-52147860

FIG. 35

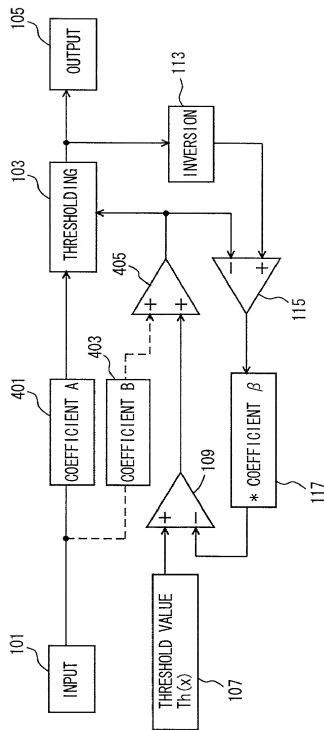
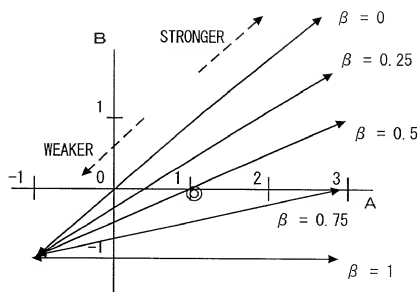


FIG. 36



09874425-060604

FIG. 37

 $\beta = 0.25$ 

	WEAK				STRONG
A	-1	0	1	2	3
B	-1	-0.25	0.5	1.25	2

 $\beta = 0.5$  (STANDARD THRESHOLD VALUE DIFFUSION)

	WEAK		STD		STRONG
A	-1	0	1	2	3
B	-1	-0.5	0	0.5	1

 $\beta = 0.75$ 

	WEAK		STRONG		STRONG
A	-1	0	1	2	3
B	-1	-0.75	-0.5	-0.25	0

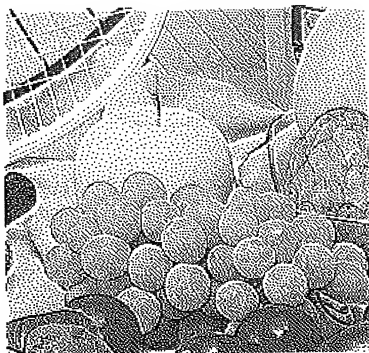
## FIG. 38

TABLE OF SET COEFFICIENT VALUES (IN RESULTS 1 TO 5,  $\beta = 0.5$ )

	COEFFICIENT A	COEFFICIENT B	
RESULT 1	3	1	STRONG EDGE ENHANCEMENT
RESULT 2	2	0.5	↑
RESULT 3	1	0	STANDARD THRESHOLD VALUE DIFFUSION
RESULT 4	0	-0.5	↓
RESULT 5	-1	-1	WEAK EDGE ENHANCEMENT
ERROR DIFFUSION	-	-	STANDARD ERROR VALUE DIFFUSION

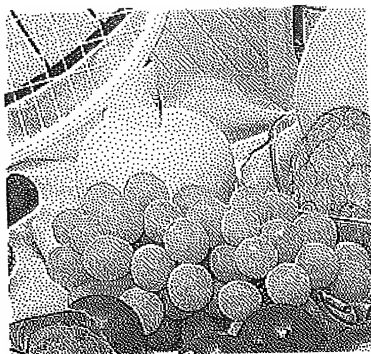


FIG. 39



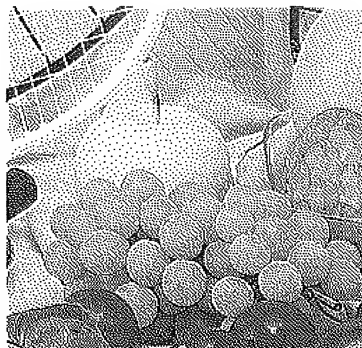
RESULT 1

FIG. 40



RESULT 2

FIG. 41



RESULT 3

09874125-060601

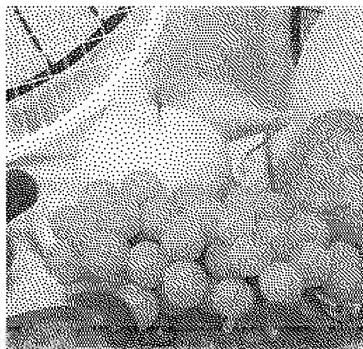
FIG. 42



RESULT 4

09874125.060601

FIG. 43



RESULT 5

F I G. 4 4

	COEFFICIENT A	COEFFICIENT B	COEFFICIENT $\beta$	
RESULT 6	3	2	0.25	STRONG EDGE ENHANCEMENT
RESULT 7	-1	-1	0.25	WEAK
RESULT 8	3	0	0.75	STRONG EDGE ENHANCEMENT
RESULT 9	-1	-1	0.75	WEAK

FIG. 45



RESULT 6

09874125-060601

FIG. 46

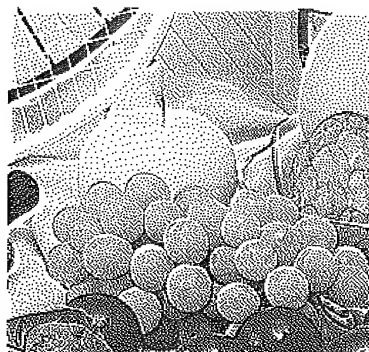


RESULT 7

109090-52142860



FIG. 47



RESULT 8

09874425.060604

FIG. 48



RESULT 9

FIG. 49 PRIOR ART

